

**AGUE MEDICINE.**—T. M. Daniel, Athens, Ga.—This invention relates to a new composition, or rather application, of certain ingredients which when applied in the manner hereinafter specified, form a cure and preventive for ague, fever, etc.

**LOOM.**—Daniel K. Fretz, Buckeye, Iowa.—This invention has for its object to simplify and cheapen, and otherwise improve the ordinary hand power loom, wherein the various parts are put in motion by the vibration of the batten.

**HOLD BACK.**—James C. Covert, Townsendville, N. Y.—This invention relates to an iron hold back to be attached to the harness, and to be connected by a ring to the neck yoke, for the purpose of doing away with the breast strap, and to facilitate the easy adjustment of the harness and the management of the vehicle.

**LAMP.**—Peter Hoffmann, Constableville, N. Y.—This invention relates to a lamp which consists of two oil chambers, the upper chamber, from which the wick draws its supply, being arranged in such a manner above the lower one into which the oil is poured, that whenever it becomes empty it may be pressed down, its lower end having a plunger fitting close in a tube projecting from the lower chamber, whereby the oil is pumped into the upper chamber. The lamp is not liable to explode, and may be filled while burning without danger.

**MACHINE FOR MAKING BULLETS OR SHOT.**—C. H. Remington, Dubuque, Iowa.—This invention relates to a new and useful improvement in machinery for making bullets or shot by compression or swaging.

**LEATHER ROLLING MACHINE.**—Johnson Lombard, Springfield, Me.—This invention relates to an improved machine for rolling or folding sole leather in bundles and consists in a set of rollers and straps in combination with a table and main rolling shaft by which the leather is rolled tightly for packing and transportation.

**KING BOLT.**—Enos A. Keasey, Ligonier, Ind.—This invention relates to an improved construction of king bolts for carriages and other vehicles, and consists in attaching the bolt with a swivel joint to the axle clip which supports the bolt by a shoulder, so that the cam bolt and head block shall turn together.

**GATE.**—Hans J. Johnson, St. Peter, Minn.—This invention has for its object to furnish a durable and convenient gate, which may be used as a single or double gate, and which may be easily adjusted so as to swing over snow or other obstructions.

**REIN HOLDER.**—Buel D. Pease, Madison, Pa.—This invention has for its object to furnish an improved rein holder for attachment to the dash board of a wagon or carriage, which shall be so constructed as to hold the reins securely and at the same time allow them to be instantaneously detached.

**SCHOOL DESK AND SEAT.**—D. C. Wilson, Beaufort, S. C.—This invention has for its object to furnish a strong, simple and convenient manner of making school desks and seats, and it consists in the construction of their frames and in the manner in which they are secured to the floor.

**CULTIVATOR.**—J. Madison Morse, Sandwich, Ill.—This invention has for its object to furnish an improved attachment for corn cultivators, by means of which the driver may be enabled to ride, which at the same time shall have a tendency to prevent the cultivator from "jumping" or "bounding," and which may be easily and quickly attached and detached.

**DRIVING PROPELLERS.**—Wm. Lawton, Greenpoint, N. Y.—This invention has for its object to furnish an improved device by means of which the screw may be made to revolve more rapidly than the driving shaft operated by the engine, so as to drive the boat at speed by a slow movement of the engine.

**SHOE KNIFE.**—Henry Sauerbier, Newark, N. J.—The inventor has received two patents for a knife for cutting or trimming the edges of the soles of boots and shoes. His invention consists in the application of a sliding guard or gage to the blade of the knife whereby the desired work may be accomplished without the liability of cutting the upper of the boot or shoe.

**TEST PUMP AND GAGE.**—Henry Getty, Brooklyn, N. Y.—This invention relates to a combined pump and gage, more especially intended for the testing of gas or other piping or tubing.

**MACHINE FOR CUTTING MITERS.**—R. F. Tompkins, New York City.—This machine consists of two cutter blades, arranged to be moved up and down in a vertical plane, and so as to be adjusted with regard to each other at a greater or lesser angle, in combination with rests or blocks for the material or stuff to be cut, correspondingly susceptible of adjustment, and to be brought into the proper relative positions with regard to the cutter or knife blades.

**WATER WHEEL.**—Wm. Cooper, Hancock, Md.—This invention relates to an improvement in that class of water wheels which are placed on a vertical shaft and are commonly termed horizontal wheels. It consists, first, in an improved application of gates to the wheel, whereby the former may be opened or closed simultaneously with the greatest facility, and retained as any point without interfering in the least with the proper action of the water upon the buckets; second, in a peculiar arrangement of the buckets, the manner of placing them in the wheel, whereby power is obtained both by the impact and gravity of the water.

**CORN PLANTER.**—Joseph Krebs and August Johns, Massillon, Ohio.—This invention has for its object to furnish an improved machine by means of which the ground may be furrowed, the corn dropped and covered, and the hill marked by the same operation, and which shall at the same time be simple in construction and easily operated.

**CHAIR SEAT.**—George Heesen, Tecumseh, Mich.—This invention relates to a new and improved seat for chairs, settees, etc., and consists in substituting paper twine for flags hitherto used for such purposes. The seat is constructed in precisely the same way as the flag seat.

**SAW-SET.**—James C. Woodard, Franklin, Conn.—In this saw-set are combined and obtained many important advantages and features.

**COUPLINGS.**—E. and H. Butler, Croton Falls, N. Y.—The object of this invention is to prevent the rattling noise and wear of the center bolt or pin by which the shafts or thill are hung or pivoted to the couplings, and for this purpose the invention consists in a novel application to the said center pin or bolt, of an elastic cushion or cushions whereby the desired end is effected.

**COMBINED ERASER AND LETTER OPENER.**—George C. Barney, Philadelphia, Pa.—This invention consists in a blade of steel or other suitable material having two edges made of a curvilinear shape intersecting each other at one end of the blade where the blade is sharp pointed; the outer or convex edge of the blade being made suitable for use as an eraser, with the inner or concave suitably sharpened for cutting paper more particularly.

**WATCHES.**—J. A. Harmann, New York City.—This invention consists in so constructing the pendant of a watch as to receive and hold the key adapted to such watch whereby the key is always at hand when to be used for winding the watch movement or setting or adjusting its hands, and furthermore the socket of the key, cannot become clogged or stopped up with dirt, etc.

**HENS NEST.**—C. W. Blackman, Bridgeport, Conn.—This invention relates to a new and improved nest for hens and has for its object the prevention of more than one hen occupying the nest at the same time.

**WINDOW SCREENS.**—James McFeeley, North Woburn, Mass.—This invention consists in so constructing the frame to a window or door screen in such manner that water can be made or allowed to flow over the surface of the screen from top to bottom whereby while the dust etc., is more perfectly excluded, the atmosphere of the room is rendered cooler and more pleasant.

**CENTER BOARDS FOR VESSELS.**—John G. Saunders, Narragansett, R. I.—This invention relates to a new and improved mode of laying center boards in vessels, whereby the center board may be raised and lowered with its lower edge parallel with the keel of the vessel and center board, in case of meeting with any obstruction when the vessel is sailing, allowed to rise and pass over the obstruction without sustaining an injury whatever, and also admit of being readily detached from its trunk at any time when necessary for repairs.

**MOUSTACHE GUARD.**—A novel contrivance was patented on the 23d of July last by Chas. E. Mitchell, who is now residing at the Astor House, New York, in the shape of a moustache guard. It is made of thin metal and by means of springs ingeniously placed can be instantaneously attached to or removed from a cup or tumbler and carried in the vest pocket when not in use. By its use coffee or other liquids can be drunk without wetting the moustache. Mr. M. will be happy to show his invention to persons taking an interest in novelties of the kind or, to dispose of rights to manufacture.

**LOOM PICKER.**—Bradford Nichols, Phenix Village, R. I.—This invention relates to a new and useful improvement in the picker of a loom, and consists in making the shell or casing and binder of the picker of rawhide, and securing it to the staff by flanges on each side in such manner that it cannot slip out, nor break, nor allow the filling to come out.

**CLOTHESPIN.**—R. G. Britton, Springfield, Vt.—This invention relates to an improvement in clothespins, and consists in uniting two wooden pieces by an iron pin or rivet, and inserting a spiral spring between the ends, on one side, to cause the other ends upon a clothes line to keep the clothes fast when hung out to dry.

**HORSE COLLAR.**—James G. Haymaker, Salem Cross Roads, Pa.—This invention relates to an improvement in horse collars, and consists in a novel construction and arrangement of the lock upon the hame plates and pads whereby the collar can be placed on the horse without passing it over his head.

**DRESSER COPPERS AND WARPERS PLATES.**—Ambrose J. Nichols, North Providence, R. I.—This invention relates to machinery for the manufacture of textile fabrics, and it consists in an improvement in dresser plates or coppers, as they are usually called by manufacturers, and which improvement is also applicable to warper plates, as both the dressers and warpers are used for similar purposes.

**THRILL COUPLING.**—E. M. Naramore, North Underhill, Vt.—The object of this invention is to provide a wagon thill and pole coupling that may be readily coupled and uncoupled, and firmly and securely held in place.

**TELESCOPE.**—W. Kuebler and F. Seelhorst, Philadelphia, Pa.—This invention relates to a new and improved method for adjusting the eye-pieces and object-glasses of telescopes.

**SAFETY VALVE.**—John N. Wrigley and George Smith, Newark, N. J.—This invention consists in so arranging a valve or a valve seat in the coating or shell that it is nearly balanced by the steam, thereby rendering it much more sensitive than the ordinary safety valve now in use and consequently much more safe.

**STEAM VALVE AND VALVE MOVEMENT.**—John N. Wrigley and Geo. Smith, Newark, N. J.—This invention relates to a new and improved method of admitting steam to the cylinder of a steam engine.

**STOVEPIPE AND SMOKE STACK JOINTS.**—Wm. Stine, Elmora, Ohio.—The object of this invention is to improve the manner in which stovepipe, smoke stacks, etc., are usually joined together and to facilitate the operation of putting them up and taking them down.

**CARRIAGE WHEELS.**—John G. Buzzelle, Lynn, Mass.—This invention has for its object to furnish an improved carriage wheel, light, simple, strong, and elastic, and which can be readily tightened or strained whenever desired.

**ATTACHMENT FOR SCHOOL DESK.**—D. J. Stagg, New York City.—This invention relates to a new and useful attachment for school desks, for the purpose of holding or supporting drawings, maps, or any papers, while being copied. The invention consists in having a frame or a drawing board fitted in a slot or opening in the desk, and arranged in such a manner that the frame or board, when desired for use, may be raised up and adjusted in proper position relatively with the occupant of the desk, to receive the drawing or other article to be copied, and, when not desired for use, capable of being lowered or let down within the opening of the desk, so as to be entirely out of the way.

**HORSE HAY FORK.**—A. J. Purviance, Keosauqua, Iowa.—This invention relates to a new and useful improvement in operating horse hay forks, so that the same may not only be elevated as usual, but also drawn over the spot or stack where the hay is to be dropped or discharged. The object of the invention is to facilitate the stacking and storing away of hay with the horse hay fork.

**SEEDING MACHINE.**—Edwin Ritson, Maltaville, N. Y.—This invention relates to a new and improved seeding machine, of that class designed for sowing seed in circles.

**PLOW.**—Mason Prentiss, Cambridge, N. Y.—This invention relates to a new and improved plow of that class which is provided with a double mold board, and is more especially designed for cultivating crops. The invention consists in the application of an adjustable shoe at the rear of the share or mold board, the share being arranged in such a manner that it may, with the greatest facility, be adjusted higher or lower to graduate the depth of the furrow, as may be required.

**MACHINE FOR KNEADING DOUGH.**—W. B. Morrison, Muskegon, Mich.—This invention relates to a new and improved machine for kneading dough, and it consists in piercing the bottom of a box or dough receiver, with a concave surface in or over which a series of plungers work.

**VENTILATING ATTACHMENT FOR MILL-STONES.**—Hezekiah Mc Eldowney, Dixon, Ill.—This invention relates to a new and improved means for causing a circulation of air to pass down between the exterior of the upper mill stone and the curb thereof, whereby the stone is kept in a cool state, and the flour prevented from "sweating," as it is technically termed.

**SHIFTING STEP FOR VEHICLES.**—Edward Miller, Milwaukee, Wis.—This invention has for its object to furnish an improved shifting or detachable step for attachment to vehicles to enable persons, and especially ladies, to get in and out conveniently.

**CHURN.**—W. C. Peck, Bridgeport, Ohio.—This invention has for its object to furnish an improved rocking churn, simple in construction, convenient to be used, and which will do its work quickly and thoroughly.

**ELLIPTIC SPRING BRACE.**—M. Barker, Great Valley, N. Y.—This invention has for its object to furnish an improved means by the use of which elliptic springs may be strongly and securely braced, and which at the same time will allow either of said springs to act without a strain upon the other.

**GATE.**—A. Tandy, Columbia, Mo.—This invention has for its object to furnish an improved gate, simple in construction, and durable, and which can be opened and closed over obstructions, or up or down hill, as may be desired or necessary.

Answers to Correspondents.

**CORRESPONDENTS** who expect to receive answers to their letters must, in all cases, sign their names. We have a right to know those who seek information from us; besides, as sometimes happens, we may prefer to address the correspondent by mail.

**SPECIAL NOTE.**—This column is designed for the general interest and instruction of our readers, not for gratuitous replies to questions of a purely business or personal nature. We will publish such inquiries, however, when paid for as advertisements at 50 cents a line, under the head of "Business and Personal."

All reference to back numbers should be by volume and page.

W. B., of Ohio, thinks it would be a good thing to silence an enemy's guns by firing, point foremost, into the mouth of the guns a number of square tapered files with the teeth cut the reverse way, which would plug or lodge the enemy's shot and burst their guns when fired. So it would; but will W. B. please inform us about his plan for getting so direct an aim as to shoot into the mouth of those cannon he intends to burst.

J. O. B., of Mass., has two stoves in his shop in which he burns wood, one of which with a funnel of 40 feet in length drips a great

deal of liquid matter every day; and the pipe has to be frequently taken down and cleaned of a deposit resembling coal tar. The other, on the contrary, gives no such trouble. He wishes to know "what's the matter?" Wood when subjected to slow combustion is more or less distilled and one of the products of such distillation is pyroigneous acid which when heated still more becomes a dark, glutinous substance. It may be seen exuding from the ends of logs when heating on the andirons of an old-fashioned fireplace. The remedy is to put his stove and funnel in order to produce a draft and insure combustion.

J. T., of N. Y., asks what will remove the stain of claret from a table cloth, salt not always being efficient. Try oxalic acid.

N. D. F., of Conn., asks how ale and cider barrels can be thoroughly cleaned. We think a strong solution of sal. soda followed by hot water will do it.

W. M., of N. Y., wishes to be informed if hydrogen gas can be made available for heating or cooking purposes. It certainly can, but its expense is a serious objection, except where hydrogen can be had for next to nothing.

L. W. S., of Mass. "Can you give me information how to burn up the smoke from a planing mill, the furnace fires of which are from shavings and the waste of the mill?" Refer to the article on "Boiler Setting" first page of No. 9, current volume.

T. H. B., of Texas.—"What is the best way to keep a tubular steam boiler free from mud and scale, the latter of which accumulates rapidly from the use of hard water?" Blow off frequently, which will remove them and a part, at least, of the scale. One great fault of those who run boilers of any kind is their disinclination to perform this necessary work often enough.

R. B., of Pa., says there is in use in Philadelphia a check valve to steam boilers intended to prevent the pump from thumping. It is placed about two feet from the pump on the suction pipe and is supposed to admit about one fifth of air at every stroke of the pump, forming a cushion for the plunger and then passing into the boiler. It is used on the Harrison cast-iron boiler advantageously, and the question is whether this air endangers the boiler and whether such a pump could injure a wrought-iron boiler. In reply we would say that the air pumped into the boiler cannot injure it whether of cast or wrought iron; neither can we see how the injection of air with the water could benefit a boiler or assist in generating steam.

J. M. W., of N. Y., says: "Believing myself to have discovered a substance which I call liquid phosphorus or oil of phosphorus—the result of an experiment in match making last spring. Allow me, if you please, to ask information." Certainly; but it would, perhaps, be more satisfactory to you and us if you had described your liquid phosphorus and denoted the sort of information required.

F. K., of Mo.—"Could you give a simple and cheap recipe for softening hard water for washing purposes; the wells are in limestone rock?" We knew of nothing simpler and cheaper than sal. soda or wood ashes.

L. M. T., of Mo., desires to know the process of preparing birds and other specimens of animal life by retaining the bones and flesh. Probably D. Van Nostrand, 192 Broadway, can furnish a treatise on the art of the taxidermist.

G. McD., of N. Y., cannot succeed in depositing a film of pure silver upon silver. The battery fails him entirely. Certainly the battery may be made to give an even deposit of pure silver. Probably your failure is due to lack of skill or imperfection in the materials employed.

Business and Personal.

The charge for insertion under this head is 50 cents a line.

Parties having a Paper Mill for sale or lease will please address, with particulars, Wm. H. Gandy, Lambertville, N. J.

Tin-Ware Manufacturers and Manufacturing Companies send address to Jno. I. D. Bristol, Detroit, Mich.

Wanted, address of manufacturers of Try-Squares. John Burgum, Concord, N. H.

Wanted, manufacturers for the best double-shovel (iron) plow in the market. Address Ray & Shalters, Alliance, Ohio.

Send prices and descriptions of wood-turning lathes to I. J. W. Adams, Salisbury, Md.

Manufacturers of Pumps for raising water from deep wells, please send circulars to D. Arthur Brown & Co., Fishersville, N. H.

Manufacturers of Paper-bag machinery, and paper manufacturers send circular and price list to J. Walter, Baden, Mo.

Capitalists, seeking investments, are invited to investigate the merits of "Cotton Tie," illustrated in present number.

Oak Belting.—Large Lot for sale very cheap, in lots to suit. Address S. T. Wellman, Nashua, N. H.

EXTENSION NOTICES.

William H. Sweet, administrator of the estate of Henry L. Sweet, deceased, of Foxborough, Mass., having petitioned for the extension of a patent granted to the said Henry L. Sweet, the 20th day of December, 1853, for an improvement in guides for sewing on binding, for seven years from the expiration of said patent, which takes place on the 20th day of December, 1867, it is ordered that the said petition be heard at the Patent Office on Monday, the 2d day of December, 1867.

Joseph Nason, of New York city, having petitioned for the extension of a patent granted to him the 2d day of January, 1854, for an improvement in arrangement for cutting screws in lathes, for seven years from the expiration of said patent, which takes place on the 2d day of January, 1868, it is ordered that the said petition be heard at the Patent Office on Monday, the 16th day of December next.

Hezekiah B. Smith, of Smithville, N. J., having petitioned for the extension of a patent granted to him the 10th day of January, 1854, for an improvement in mortising machines, for seven years from the expiration of said patent, which takes place on the 10th day of January, 1868, it is ordered that the said petition be heard at the Patent Office on Monday, the 23d day of December next.

Inventions Patented in England by Americans.

[Condensed from the "Journal of the Commissioners of Patents."]

PROVISIONAL PROTECTION FOR SIX MONTHS.

- 2,262.—MANUFACTURE OF WHEELED VEHICLES, ETC.—John S. Campbell, Newton, N. J. Aug. 3, 1867.
- 2,408.—APPARATUS FOR RAISING WATER, ETC., BY STEAM POWER.—Wm. L. Horne, Batavia, Ill. Aug. 23, 1867.
- 2,475.—CARPET STRETCHER AND TACK DRIVER.—Wm. Brown, New York City, Aug. 31, 1867.
- 2,438.—MANUFACTURE OF IRON AND STEEL.—Alexander L. Holley, New York City. Aug. 27, 1867.
- 2,466.—APPARATUS FOR SUBMARINE EXPLORATION.—George Wrightson, New York City. Aug. 29, 1867.
- 2,506.—PADDLE WHEELS FOR WATER CRAFT.—Wm. R. Manley, New York City. Sept. 4, 1867.
- 2,551.—WIRE HEDDLES FOR LOOM HARNESSES.—Darius C. Brown, Mass Sept. 9, 1867.